
Kevin Ross

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Please visit <http://ksross.com> for updated CV

Education

- 2010** **Master of Science - Geography**
The Pennsylvania State University
Advisor: Alan MacEachren
Specialization: Geographic Information Science; geocollaboration
- 2008** **Bachelor of Science - Geography**
Salisbury University
Areas of Concentration: Geographic Information Science, Earth & Atmospheric Science
Minor: Information Systems
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Work Experience

- 2014 - present** **Lead Engineer – Associate**
Booz Allen Hamilton
Web application development with ColdFusion, jQuery, MS SQL Server. GIS integration with ArcGIS, Flex, SQL Server.
- 2008 - 2014** **Lead Developer**
Nsite LLC
Lead a team of developers and worked on the development of web and mobile applications for government clients including the DoD and USFS. Technologies included ColdFusion, Java, jQuery, Cordova/PhoneGap, MS SQL Server, Oracle.
- 2009 - 2011** **Research Assistant**
GeoVISTA Center, The Pennsylvania State University
Work on software development (Flex, Flash, AS3, Java) and research for VACCINE: Visual Analytics for Command, Control, and Interoperability Environments (DHS), and Vaccine Modeling Initiative (Gates Foundation) projects.
- 2008** **Teaching Assistant**
Department of Geography, The Pennsylvania State University
Taught the laboratory component of Geography 364 (Spatial Analysis)
- 2007 - 2008** **Intern**
Mission Planning Lab for NASA, Salisbury, MD
Compile geographic data to be implemented in NASA's Satellite Toolkit software for simulating rocket launches
- 2007 - 2008** **Lab Assistant**
Salisbury University
Ensure the private Geography computer lab is running smoothly and help any students who require assistance with homework or equipment
- 2007** **Intern**
Town of Denton, MD
Compiled and analyzed geographic data for the town and designed maps to be used by the town
- 2007** **Intern**
City of Salisbury, MD
Compiled and analyzed geographic data for the city of Salisbury using GIS software
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Skills

Relevant Software: ESRI ArcGIS, Manifold GIS, AGI Satellite Toolkit, Adobe Illustrator + MAPublisher, Adobe After Effects, Adobe Fireworks, MS SQL Server, PostgreSQL + PostGIS, MS Office, Git, SVN

Programming: .NET, Java, ColdFusion, Python, PHP, JavaScript, HTML, CSS, Flex, AS3, SQL

Certifications

GIAC Secure Software Programmer-Java (GSSP-JAVA)

Publications

1. Roth RE, **KS Ross**, and AM MacEachren. 2015 User-centered design for interactive maps: A case study in crime analysis. *International Journal of Geo-Information*. 4(1): 262-301.
2. Roth RE, **KS Ross**, BG Finch, W Luo, and AM MacEachren. 2013. Spatiotemporal crime analysis in U.S. law enforcement agencies: Current practices and unmet needs. *Government Information Quarterly*. 30(3): 226-240.
3. Tomaszewski, B, J Blanford, **KS Ross**, S Pezanowski and AM MacEachren. 2011. Supporting geographically-aware web document foraging and sensemaking. *Computers, Environment and Urban Systems*. 35(3): 192-207
4. Roth RE, **KS Ross**, BG Finch, W Luo, and AM MacEachren. 2010. A user-centered approach for designing and developing spatiotemporal crime analysis tools. In: *Proceedings of GIScience 2010*. Zurich, Switzerland: September 15
5. Roth RE and **KS Ross**. 2009. Extending the Google Maps API for Flash for Event Animation Mashups. *Cartographic Perspectives* 64: 21-40. **(invited)**

Presentations

1. Roth RE (presenter), **KS Ross**, W Luo, BJ Finch, and AM MacEachren. 2010. A user-centered approach to extending spatiotemporal crime analysis tools. *The 106th Annual Meeting of the Association of American Geographers*. Washington, DC: April 15.
2. **Ross KS** (presenter), Roth RE, BG Finch, W Luo, CA McCabe, and AM MacEachren. 2010. Web-based geovisualization and geovisual analytics to support crime analysis. *Department of Homeland Security Summit*. Washington, DC: March 9. (invited)
3. **Ross KS** (presenter) and RE Roth. 2010. GeoVISTA CrimeViz. *Technologies for Critical Incident Preparedness*. Philadelphia, PA: February 2.
4. **Ross KS**. 2009. Ladder versus star: Comparing two approaches for hydrologic flowline data across multiple scales. *Research on Multi-scale Hydrography for National Mapping, Forum sponsored by the Center of Excellence for Geospatial Information Science (CEGIS)*. Presentation at USGS Headquarters. Reston, VA: December 4.
5. Roth RE (presenter), **KS Ross**, CA McCabe. 2009. CrimeViz: Near real-time visualization for understanding spatio-temporal patterns of violent crime in the District of Columbia. *Visual Analytics Center Consortium Meeting*. Richland, WA: August 18.
6. Roth RE (presenter) and **KS Ross**. 2009. Extending the Google Maps API for event animation mashups. *Practical Cartography Day, North American Cartographic Information Society (NACIS) 2009*. Sacramento, CA: October 7.
7. **Ross KS** (presenter), CA McCabe, and RE Roth. 2009. A near real-time visualization for understanding spatio-temporal patterns of violent crime in the District of Columbia. *Department of Homeland Security Summit*. Washington, DC: March 16. **(refereed)**
8. **Ross KS**, B Sigrist. 2008. From Gaming to GIS: Evaluating parallel processing using NVIDIA CUDA technology. *National Conference on Undergraduate Research*, Salisbury, MD: April 10.
9. **Ross KS**. 2007. An analysis of the degree and amount of error in tornado watches in the United States in 2006. *Salisbury University Student Research Conference*, Salisbury, MD: April 27

References and letters of recommendation available upon request.